a contact surface 1102 that extends above a plane defined by the polishing surface 1002 of the body 1006. The contact surface 1102 is generally rounded to prevent damage to the substrate during processing.

Please replace the paragraph [0113] with the following paragraph:

[0113] The contact member 1204 is typically formed from a conductive material such as graphite or a metal or other at least partially conductive material compatible with process chemistries as described herein. The contact member 1204 is typically a cylinder, rod, roller, coil, bar or ball although other shapes may be utilized. For example, the contact member 1204 is a graphite rod seated on a graphite carrier 1202 in the embodiment depicted in Figure 12A and the contact member 1204 is a plurality of graphite or gold balls seated on and electrically coupled through a graphite carrier 1202 in the embodiment depicted in Figure 12B.

Support for the amendments in the specification are found in claims 19, 20, 27, 33, and 38, and in paragraph [0113].

## IN THE DRAWINGS

Applicant proposes amending the drawings as shown in a separate request for correction of the drawings. Figure 2 has been amended to remove erroneously included matter as indicated in red ink.

## IN THE CLAIMS:

Please cancel claims 1-28, 30, and 41 without prejudice, and amend the claims as follows:

- 1. (Cancelled) An article of manufacture for polishing a substrate, comprising:
- a polishing article comprising a body having at least a partially conductive surface adapted to polish the substrate and a mounting surface.

- 2. (Cancelled) The article of claim 1, wherein the body comprises at least a conductive material having at least a portion of a conductive polymer, conductive filler materials, a polymer composite with conductive materials, a conductive metal, a metal mesh, or combinations thereof.
- 3. (Cancelled) The article of claim 1, wherein the conductive surface has a resistivity of about 10  $\Omega$ -cm or less.
- 4. (Cancelled) The article of claim 2, wherein the polishing article comprises a metal mesh disposed in a conventional polishing material, wherein the metal mesh is connected to a power source and conducts electricity to the substrate surface through the conductive polishing surface.
- 5. (Cancelled) The article of claim 1, wherein the polishing article further comprises a plurality of perforations formed therein.
- 6. (Cancelled) The article of claim 5, further comprising a plurality of grooves disposed in the polishing surface.
- 7. (Cancelled) The article of claim 6, wherein at least a portion of the plurality of grooves intersect with at least a portion of a plurality of perforations disposed in the polishing surface.
- 8. (Cancelled) The article of claim 1, wherein the conductive surface comprises conductive polishing article disposed on a conductive article support.
- 9. (Cancelled) The article of claim 8, wherein the conductive article support is connected to a power source and conducts electricity to the substrate surface through the conductive polishing surface.

- 10. (Cancelled) The article of claim 5, wherein the article of manufacture is disposed on a polishing article support comprising a plurality of perforations disposed therein for flow of material therethrough.
- 11. (Cancelled) The article of claim 10, wherein a plurality of perforations in the polishing article are aligned with the plurality of perforations of the polishing article support.
- 12. (Cancelled) The article of claim 5, wherein the polishing article is mounted on an apparatus for processing a substrate, comprising:

a basin:

a permeable disc disposed in the basin, wherein the polishing article is disposed on the permeable disk and wherein at least a portion of the polishing article comprises an electrode;

a counter electrode disposed in the basin between the permeable disc and the bottom of the basin; and

a polishing head adapted to retain the substrate during processing.

- 13. (Cancelled) A polishing article for polishing a substrate, comprising: a body having a polishing surface adapted to polish the substrate; and at least one conductive element embedded in the polishing surface, the conductive element having a contact surface that extends beyond a plane defined by the polishing surface.
- 14. (Cancelled) The polishing article of claim 13, wherein the body comprises a dielectric material selected from the group of polyurethane, polycarbonate, polyphenylene sulfide, felt fibers leached with urethane, filled polymers, foamed polymers, and combinations thereof.
- 15. (Cancelled) The polishing article of claim 13, wherein the body has a plurality of apertures formed therethrough.

- 16. (Cancelled) The polishing article of claim 13, further comprising a biasing member disposed between the conductive element and the body, the biasing member adapted to urge the conductive element towards the polishing surface.
- 17. (Cancelled) The polishing article of claim 16, wherein the biasing member comprises a spring, a foam polymer, plastic tubing, an elastomer, or combinations thereof.
- 18. (Cancelled) The polishing article of claim 16, wherein the biasing member is resilient and urges a compliant contact surface of the conductive element to electrically contact the substrate disposed on the polishing surface.
- 19. (Cancelled) The polishing article of claim 16, wherein the conductive element is selected from at least one of the group of conductive tubing, a brush, a spring, a pin, a bar, a roller, a ball, and combinations thereof.
- 20. (Cancelled) The polishing article of claim 16, wherein the biasing member is selected from the group of a spring, a foam polymer, plastic tubing, an elastomer, and combinations thereof, the conductive element is selected from at least one of the group of conductive tubing, a brush, a spring, a pin, a bar, a roller, a ball, and combinations thereof, wherein urges a compliant contact surface of the conductive element to electrically contact the substrate disposed on the polishing surface.
- 21. (Cancelled) The polishing article of claim 15, wherein the polishing article comprises:
  - a body having a polishing surface adapted to polish the substrate;
- a plurality of conductive compliant elements embedded in the polishing surface, the conductive compliant elements having a contact surface that extends beyond a plane defined by the polishing surface and is adapted to be urged by the substrate towards the polishing surface; and

- a biasing member disposed between the conductive compliant elements and the body.
- 22. (Cancelled) The polishing article of claim 13, wherein the conductive member is compliant.
- 23. (Cancelled) The polishing article of claim 13, wherein the contact surface is rounded, cylindrical, spherical or comprised of fibers, loops, fingers, strands, or combinations thereof.
- 24. (Cancelled) The polishing article of claim 13, wherein the conductive element further comprises:
  - a carrier disposed in a pocket formed in the body; and
- a contact member disposed on the carrier and extending beyond a plane defined by the polishing surface.
- 25. (Cancelled) The polishing article of claim 24, wherein the carrier and contact member are conductive.
- 26. (Cancelled) The polishing article of claim 24, wherein the contact member comprises a plurality of balls, pins, a rod, a spring, or combinations thereof.
- 27. (Cancelled) The polishing article of claim 24, wherein at least one of the carrier and contact member is made of graphite.
- 28. (Cancelled) The polishing article of claim 13, further comprising a connector coupled to the conductive member and adapted to electrically couple the conductive member to a bias power source.
- 29. (Amended) A polishing article for polishing a substrate, comprising: a body having a polishing surface adapted to polish the substrate;

at least one conductive element embedded in the polishing surface, wherein the conductive element has a contact surface that extends beyond a plane defined by the polishing surface; and

one or more pockets formed in the polishing surface, wherein the conductive element is disposed in at least one of the pockets.

- 30. (Cancelled) The polishing article of claim 29, wherein the conductive element has a contact surface that extends beyond a plane defined by the polishing surface.
- 32. (Amended) The polishing article of claim 29, further comprising a biasing member disposed in the pocket between the conductive element and the body.
- 31. (Allowed) The polishing article of claim 29, wherein the biasing member is a spring, a foam polymer, plastic tubing, an elastomer, or combinations thereof, and urges a compliant contact surface of the conductive element to electrically contact the substrate disposed on the polishing surface.
- 33. (Amended) The polishing article of claim 29, wherein the conductive element is selected from at least one of the group of conductive tubing, a brush, a spring, a pin, a bar, a rod, a coil, a cylinder, a roller, a ball, or combinations thereof.
- 34. (Allowed) The polishing article of claim 29, wherein the conductive element further comprises a contact surface that extends beyond a plane defined by the polishing surface.
- 35. (Allowed) The polishing article of claim 34, wherein the contact surface is rounded, cylindrical, spherical or comprised of fibers, loops, fingers, strands, or combinations thereof.
- 36. (Allowed) The polishing article of claim 29, wherein the conductive element further comprises:

- a carrier disposed in the pocket;
- a contact member disposed on the carrier; and

wherein at least a portion of the contact member extends beyond a plane defined by the polishing surface.

- 37. (Allowed) The polishing article of claim 36, wherein the carrier and contact member are conductive.
- 38. (Amended) The polishing article of claim 36, wherein the contact member comprises a plurality of balls, pins, a rod, a spring, conductive tubing, a brush, a bar, a coil, a cylinder, a roller, or combinations thereof.
- 39. (Allowed) The polishing article of claim 36, wherein at least one of the carrier and contact member is made of graphite.
- 40. (Allowed) The polishing article of claim 29, further comprising a connector coupled to the conductive member and adapted to electrically couple the conductive member to a bias power source through or around the body.
- 41. (Cancelled) The polishing article of claim 13, wherein the polishing article is disposed on an apparatus for processing a substrate, comprising:
  - a basin;
- a permeable disc disposed in the basin, wherein the polishing article is disposed on the permeable disk;
- a counter electrode disposed in the basin between the permeable disc and the bottom of the basin; and
  - a polishing head adapted to retain the substrate during processing.

Please add new claims 42-99 as follows:

42. (New) An article of manufacture for polishing a substrate, comprising:

a polishing article comprising a body having at least a partially conductive surface adapted to polish the substrate and a mounting surface, wherein the conductive surface has a resistivity of about 10  $\Omega$ -cm or less.

- 43. (New) The article of claim 42, wherein the body comprises at least a conductive material having at least a portion of a conductive polymer, conductive filler materials, a polymer composite with conductive materials, a conductive metal, a metal mesh, or combinations thereof.
- 44. (New) The article of claim 43, wherein the conductive filler materials comprise conductive fillers include carbon powder, carbon fibers, carbon nanotubes, carbon nanofoam, carbon aerogels, and combinations thereof.
- 45. (New) The article of claim 43, wherein the conductive filler materials comprise carbon powder, carbon fibers, and combinations thereof.
- 46. (New) The article of claim 42, wherein the body comprises a metal mesh disposed in a conventional polishing material.
- 47. (New) An article of manufacture for polishing a substrate, comprising:
- a polishing article comprising a body having at least a partially conductive surface adapted to polish the substrate and a mounting surface, wherein the polishing article further comprises a plurality of perforations formed therein and a plurality of grooves disposed in the polishing surface.
- 48. (New) The article of claim 47, wherein at least a portion of the plurality of grooves intersect with at least a portion of a plurality of perforations disposed in the polishing surface.
- 49. (New) The article of claim 47, wherein the body comprises at least a conductive material having at least a portion of a conductive polymer, conductive filler materials, a

polymer composite with conductive materials, a conductive metal, a metal mesh, or combinations thereof.

- 50. (New) The article of claim 49, wherein the conductive filler materials comprise conductive fillers include carbon powder, carbon fibers, carbon nanotubes, carbon nanofoam, carbon aerogels, and combinations thereof.
- 51. (New) The article of claim 48, wherein the conductive filler materials comprise conductive fillers include carbon powder, carbon fibers, and combinations thereof.
- 52. (New) The article of claim 47, wherein the body comprises a metal mesh disposed in a conventional polishing material.
- 53. (New) An article of manufacture for polishing a substrate, comprising:
- a polishing article comprising a body having at least a partially conductive surface adapted to polish the substrate and a mounting surface, wherein the polishing article further comprises a plurality of perforations formed therein; and
- a polishing article support comprising a plurality of perforations disposed therein for flow of material therethrough, wherein the article of manufacture is disposed on the polishing article support.
- 54. (New) The article of claim 53, wherein a plurality of perforations in the polishing article are aligned with the plurality of perforations of the polishing article support.
- 55. (New) The article of claim 53, wherein the body comprises at least a conductive material having at least a portion of a conductive polymer, conductive filler materials, a polymer composite with conductive materials, a conductive metal, a metal mesh, or combinations thereof.

- 56. (New) The article of claim 55, wherein the conductive filler materials comprise conductive fillers include carbon powder, carbon fibers, carbon nanotubes, carbon nanofoam, carbon aerogels, and combinations thereof.
- 57. (New) The article of claim 55, wherein the conductive filler materials comprise conductive fillers include carbon powder, carbon fibers, and combinations thereof.
- 58. (New) The article of claim 53, wherein the body comprises a metal mesh disposed in a conventional polishing material.
- 59. (New) An apparatus for processing a substrate, comprising:
  - a basin;
  - a permeable disc disposed in the basin;
- a polishing article disposed on the permeable disk and at least a portion of the polishing article comprising an electrode, wherein the polishing article comprises a body having at least a partially conductive surface adapted to polish the substrate and a mounting surface, wherein the polishing article further comprises a plurality of perforations formed therein;
- a counter electrode disposed in the basin between the permeable disc and the bottom of the basin; and
  - a polishing head adapted to retain the substrate during processing.
- 60. (New) The article of claim 59, wherein the body comprises at least a conductive material having at least a portion of a conductive polymer, conductive filler materials, a polymer composite with conductive materials, a conductive metal, a metal mesh, or combinations thereof.
- 61. (New) The article of claim 60, wherein the conductive filler materials comprise conductive fillers include carbon powder, carbon fibers, carbon nanotubes, carbon nanofoam, carbon aerogels, and combinations thereof.

- 62. (New) The article of claim 60, wherein the conductive filler materials comprise conductive fillers include carbon powder, carbon fibers, and combinations thereof.
- 63. (New) The article of claim 59, wherein the body comprises a metal mesh disposed in a conventional polishing material.
- 64. (New) A polishing article for polishing a substrate, comprising:
  - a body having a polishing surface adapted to polish the substrate; and
- at least one conductive element embedded in the polishing surface, the conductive element having a contact surface that extends beyond a plane defined by the polishing surface; and
- a biasing member disposed between the at least conductive element and the body, the biasing member adapted to urge the at least one conductive element towards the polishing surface.
- 65. (New) The polishing article of claim 64, wherein the body comprises a dielectric material selected from the group of polyurethane, polycarbonate, polyphenylene sulfide, felt fibers leached with urethane, filled polymers, foamed polymers, and combinations thereof.
- 66. (New) The polishing article of claim 64, wherein the body has a plurality of apertures formed therethrough.
- 67. (New) The polishing article of claim 64, wherein the biasing member comprises a spring, a foam polymer, plastic tubing, an elastomer, or combinations thereof.
- 68. (New) The polishing article of claim 64, wherein the biasing member is resilient and urges a compliant contact surface of the conductive element to electrically contact the substrate disposed on the polishing surface.

- 69. (New) The polishing article of claim 64, wherein the at least one conductive element is selected from at least one of the group of conductive tubing, a brush, a spring, a pin, a bar, a rod, a coil, a cylinder, a roller, a ball, or combinations thereof and combinations thereof.
- 70. (New) The polishing article of claim 69, wherein the at least one conductive element comprises carbon, a conductive metal, or combinations thereof.
- 71. (New) The polishing article of claim 64, wherein the biasing member is selected from the group of a spring, a foam polymer, plastic tubing, an elastomer, and combinations thereof, the at least one conductive element is selected from at least one of the group of conductive tubing, a brush, a spring, a pin, a bar, a rod, a coil, a cylinder, a roller, a ball, and combinations thereof, wherein the biasing member urges a compliant contact surface of the conductive element to electrically contact the substrate disposed on the polishing surface.
- 72. (New) The polishing article of claim 71, wherein the at least one conductive element comprises carbon, a conductive metal, or combinations thereof.
- 73. (New) The polishing article of claim 64, wherein the at least one conductive element comprises a plurality of graphite or gold balls seated on and electrically coupled through a graphite carrier.
- 74. (New) The polishing article of claim 64, wherein the at least one conductive element comprises one or more graphite rods each seated on a graphite carrier.
- 75. (New) The polishing article of claim 64, wherein the at least one conductive element comprises one or more carbon fibers.

- 76. (New) The polishing article of claim 64, wherein the at least one conductive element comprises a plurality of loop of graphite, gold, or conductive metal, coupled to a tie wire base embedded in the body.
- 77. (New) A polishing article for polishing a substrate, comprising:
  - a body having a polishing surface adapted to polish the substrate; and
- a plurality of conductive compliant elements embedded in the polishing surface, the conductive compliant elements having a contact surface that extends beyond a plane defined by the polishing surface and is adapted to be urged by the substrate towards the polishing surface; and
- a biasing member disposed between the conductive compliant elements and the body.
- 78. (New) The polishing article of claim 77, wherein the biasing member is selected from the group of a spring, a foam polymer, plastic tubing, an elastomer, and combinations thereof, the at least one conductive element is selected from at least one of the group of conductive tubing, a brush, a spring, a pin, a bar, a rod, a coil, a cylinder, a roller, a ball, and combinations thereof, wherein the at least one conductive element has a compliant contact surface to electrically contact the substrate disposed on the polishing surface.
- 79. (New) The polishing article of claim 78, wherein the at least one conductive element comprises carbon, a conductive metal, or combinations thereof.
- 80. (New) The polishing article of claim 77, wherein the at least one conductive element comprises one or more carbon fibers.
- 81. (New) The polishing article of claim 77, wherein the at least one conductive element comprises a plurality of loop of graphite, gold, or conductive metal, coupled to a tie wire base embedded in the body.

- 82. (New) A polishing article for polishing a substrate, comprising:
  a body having a polishing surface adapted to polish the substrate; and
- at least one conductive element embedded in the polishing surface, the conductive element having a contact surface that extends beyond a plane defined by the polishing surface, wherein the contact surface is rounded, cylindrical, spherical or comprised of fibers, loops, fingers, strands, or combinations thereof.
- 83. (New) The polishing article of claim 82, wherein the body comprises a dielectric material selected from the group of polyurethane, polycarbonate, polyphenylene sulfide, felt fibers leached with urethane, filled polymers, foamed polymers, and combinations thereof, and has a plurality of apertures formed therethrough.
- 84. (New) The polishing article of claim 82, wherein the at least one conductive element is selected from at least one of the group of conductive tubing, a brush, a spring, a pin, a bar, a rod, a coil, a cylinder, a roller, a ball, and combinations thereof.
- 85. (New) The polishing article of claim 84, wherein the at least one conductive element comprises carbon, a conductive metal, or combinations thereof.
- 86. (New) The polishing article of claim 82, wherein the at least one conductive element comprises a plurality of graphite or gold balls seated on and electrically coupled through a graphite carrier.
- 87. (New) The polishing article of claim 82, wherein the at least one conductive element comprises one or more graphite rods each seated on a graphite carrier.
- 88. (New) The polishing article of claim 82, wherein the at least one conductive element comprises one or more carbon fibers.

- 89. (New) The polishing article of claim 82, wherein the at least one conductive element comprises a plurality of loop of graphite, gold, or conductive metal, coupled to a tie wire base embedded in the body.
- 90. (New) A polishing article for polishing a substrate, comprising: a body having a polishing surface adapted to polish the substrate; and at least one conductive element embedded in the polishing surface, comprising: a carrier disposed in a pocket formed in the body; and a contact member disposed on the carrier, the contact member having a contact surface extending beyond a plane defined by the polishing surface.
- 91. (New) The polishing article of claim 90, wherein the carrier and contact member are conductive.
- 92. (New) The polishing article of claim 91, wherein at least one of the carrier and contact member is made of graphite, carbon, a conductive metal, or combinations thereof.
- 93. (New) The polishing article of claim 90, wherein the contact member comprises a plurality of conductive tubing, a brush, springs, pins, bars, rods, coils, cylinders, rollers, balls, or combinations thereof.
- 94. (New) The polishing article of claim 90, wherein the body comprises a dielectric material selected from the group of polyurethane, polycarbonate, polyphenylene sulfide, felt fibers leached with urethane, filled polymers, foamed polymers, and combinations thereof, and has a plurality of apertures formed therethrough.
- 95. (New) The polishing article of claim 90, wherein the at least one conductive element comprises a plurality of graphite or gold balls seated on and electrically coupled through a graphite carrier.